AMENDMENT TO THE CLAIMS

The following claim listing replaces all prior listings and versions of the claims:

LISTING OF CLAIMS

1-3. (Canceled)

4. (Currently amended) ~~The solid state imaging apparatus of claim 1,~~ A solid state imaging apparatus, comprising:

a plurality of pixels two-dimensionally arranged in a vertical direction and a horizontal direction wherein each of the plurality of pixels has a color filer having a different color from color filters of vertically or horizontally adjacent pixels; and

a signal output circuit configured to perform two types of operations,

wherein the signal ~~outputting~~ output circuit ~~means~~ includes:

a first shift register for performing sequential scanning to all ~~ones~~ of the plurality of the pixels either in a vertical or a horizontal direction ~~arranged in the vertical direction or the horizontal direction~~ and

a second shift register for performing ~~sequential~~ scanning to ~~ones of~~ the plurality of ~~the~~ pixels either in a vertical or a horizontal direction partially in the manner that pixels having ~~arranged in the vertical direction or the horizontal direction and including~~ color filters of the same color are continuously scanned.

5. (Currently amended) ~~The solid state imaging apparatus of claim 1,~~ A solid state imaging apparatus, comprising:

a plurality of pixels two-dimensionally arranged in a vertical direction and a horizontal direction wherein each of the plurality of pixels has a color filer having a different color from color filters of vertically or horizontally adjacent pixels; and

a signal output circuit configured to perform two types of operations,

wherein the signal ~~outputting~~ output circuit ~~means~~ includes:

a shift register for performing sequential scanning to all ~~ones~~ of the plurality of ~~the~~ pixels either in a vertical or a horizontal direction ~~arranged in the vertical direction or the horizontal direction~~ and

an output circuit ~~means~~ for outputting charge signals from the shift register, the output circuit configured to switch ~~switching~~ between a first output method in which the charge signals ~~received from the shift register~~ are output so that charge signals of all pixels arranged in the vertical direction or the horizontal direction are sequentially output and a second output method in which the charge signals ~~received from the shift register~~ are ~~sequentially~~ output so that charge signals of pixels having ~~including~~ color filters of the same color are ~~sequentially~~ partially continuously output ~~and then outputting charge signals~~.

6-11. (Canceled)

12. (Currently amended) A camera comprising a solid state imaging apparatus, ~~which includes a plurality of pixels two-dimensionally arranged in the vertical direction and the horizontal direction and in which every two vertically or horizontally adjacent ones of the plurality of pixels includes color filters of different colors~~,

wherein the solid state imaging apparatus comprises:

a plurality of pixels two-dimensionally arranged in a vertical direction and a horizontal direction wherein each of the plurality of pixels has a color filer having a different color from color filters of vertically or horizontally adjacent pixels; and

a signal output circuit configured to perform two types of operations, ~~includes signal output means for~~

wherein the signal output circuit includes a first shift register for performing sequential scanning to all of the plurality of the pixels either in a vertical or a horizontal direction and a second shift register for performing scanning to the plurality of pixels either in a vertical or a horizontal direction partially in the manner that pixels having color filters of the same color are continuously scanned ~~sequentially outputting, in a predetermined period of time, charge signals received from ones of the plurality of pixels including color filters of the same color~~.

13. (Canceled)

14. (New) The solid state imaging apparatus of claim 4, wherein the second shift register repeats an operation which continuously outputs signals of the plurality of pixels having color filters of the same color, on a basis of each pixel mixture unit consisting of a plurality of pixels.

15. (New) The solid state imaging apparatus of claim 5, wherein the second output method repeats, after continuously outputting signals of the plurality of pixels having color filters of a same color, an operation which continuously outputs signals of the plurality of pixels having color filters of a different color, on a basis of each pixel mixture unit consisting of a plurality of pixels.

16. (New) The solid state imaging apparatus of claim 4, wherein the first shift register performs a regular operation, and a second shift register performs a pixel mixture operation.

17. (New) The solid state imaging apparatus of claim 16, wherein a static image mode is executed by the regular operation, and a moving image mode is executed by the pixel mixture operation.

18. (New) The solid state imaging apparatus of claim 5, wherein the first output method is a sequential scanning method, and the second output method is a pixel mixture scanning method.

19. (New) The solid state imaging apparatus of claim 18, wherein a static image mode is executed by the sequential scanning method, and a moving image mode is executed by the pixel mixture scanning method.